



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,908	04/08/2005	Stefan Ossenkopp	3261	9897
7590 Striker Striker & Stenby 103 East Neck Road Huntington, NY 11743		EXAMINER CAZAN, LIVIUS RADU		
		ART UNIT 3729		
		DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/530,908

Applicant(s)

OSSENKOPP ET AL.

Examiner

LIVIOUS R. CAZAN

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 August 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 and 10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 and 10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/22)
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/11/2009 has been entered. The amendment filed on 8/11/2009 has been fully considered and made of record.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 10 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In particular, claims 1-8 appear to be directed to the embodiment shown in Fig. 11, where stamped wire elements 11 are bent toward the axial center of the stator and are connected to ring 40 disposed radially inwardly. Claim 10, on the other hand, recites limitations that appear to be directed to the embodiments

shown in Figs. 13c and 14c. Therefore, a conflict exists, since claim 10 is directed to limitations from two distinct embodiments.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-8 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. In claim 1, step c) the phrase "two legs of the winding constituting some stamped wire elements which are U-shaped" renders the claim indefinite, because as currently recited it would appear the winding constitutes some stamped wire elements which are U-shaped. It is the wire elements which constitute the winding, not the other way around, and it is therefore unclear how the winding can constitute stamped wire elements. Further, the phrase "so that their bent ends are orientated radially inwards" renders the claim indefinite, because nowhere does the claim recite wire elements having bent ends.

Suggested Amendment

7. The Examiner suggests amending the claims as shown below, as this appears to define over the art previously cited and to overcome the above rejections as well as to correct some other informalities.

8. 1. A method for manufacturing multiphase windings of an electric machine with the following process steps: a) deforming a cross section of elongated wire elements by stamping a cross-sectional profile of said wire elements to increase a slot space factor;

9. b) loading offsetting dies with some of the stamped wire elements to constitute a winding, with other of the stamped wire elements to constitute an integrated star point, and with further of the stamped wire elements for supplying current to the winding;

10. c) forming a winding head with an integrated star point by simultaneously moving, by means of the offsetting dies, two legs of the ~~some of the~~ stamped wire elements, which are U-shaped, in a circumferential direction that is transverse to a longitudinal direction of the ~~loaded~~ stamped wire elements, arranging the other ~~of the~~ stamped wire elements, ~~which have bent ends~~, so that their bent ends are orientated radially ~~inwardly~~ toward one another in a shape of a star, and arranging the further ~~of the~~ stamped wire elements on an outside of the winding head opposite to the other ~~of the~~ stamped wire elements;

~~Deleted: winding constituting~~

~~Deleted: star point constituting~~

~~Deleted: inwards~~

~~Deleted: current supplying~~

~~Deleted: star point constituting~~

11. d) connecting the bent ~~and radially inwardly oriented~~ ends of the other ~~of the~~ stamped wire elements with a connecting ring, whereby an electrical contacting of the integrated star point is completed, and wherein the connecting ring is disposed radially ~~inwardly on an inside of the winding head~~.

~~Deleted: radial, inward-oriented~~

~~Deleted: inward~~

12. 2. The method as recited in claim 1, wherein said stamping includes stamping a cross-sectional profile in a wedge shape onto the wire elements.

13. 3. The method as recited in claim 1, wherein said stamping includes stamping an oval or circular cross-sectional profile onto the wire elements.

14. 4. The method as recited in claim 1, further comprising loading the offsetting dies with the stamped wire elements in such a way that the other ~~of the~~ wire elements that constitute the integrated star point are offset from one another by an angle of 120°.

15. 5. The method as recited in claim 1, further comprising shaping the winding head by means of an offsetting of the offsetting dies.

16. 6. The method as recited in claim 1, further comprising producing a wire cage and attaching it to a laminated core.

17. 7. The method as recited in claim 6, further comprising providing the laminated core with an insulation in an attachment region of the wire cage.

18. 8. The method as recited in claim 1, further comprising contacting the some of the stamped wire elements to one another at a contacting end of the winding.

19. 10. ~~Cancelled.~~

Deleted: of

Deleted: on

Deleted: The method as recited in claim 1, wherein the connecting includes using the ring that has recesses or is encompassed by a ring material whose loops encompass the other wire elements to form the integrated star point.

Allowable Subject Matter

20. Claims 1-8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office Action, and amended in a manner similar to the above suggestions.

Response to Arguments

21. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LIVIUS R. CAZAN whose telephone number is (571) 272-8032. The examiner can normally be reached on M-F 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DERRIS H. BANKS can be reached on (571) 272-4419. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. Dexter Tugbang/
Primary Examiner
Art Unit 3729

/L. R. C./ 12/5/2009
Examiner, Art Unit 3729